	Approved For Release 2002/07/22	Approved For Release 2002/07/22 : CIA-RDP78B04747A003200020025-5		
		24 S∈	eptember 1965	
			se Reference: 65-3339	
	U. S. Government			
	Subject: Refurbishment of the HT	1– 5		
	Gentlemen:			
	We have completed a preliminary survey of the HTA-5 and Ivan's comments, based on his cursory examination of the machine are attached for your information.			
	As you will deduce, the refurbishme siderable effort not only from a work amount of estimating that is required are on the right track, please review of a greement. Also, we work original performance evaluation recovered all areas.	rk standpoint, but also ed. In order to be sur ew Ivan's comments ar ould appreciate a copy	o from the e that we nd advise if y of the	
	As discussed previously, we have effort because we intend to use it	n't included the ABD4 "as is" during the pre	dryer in this sent program.	
	Please don't hesitate to call if you require further information.			
	•	Very truly yours,		
ass Rev A/DOD	iew by			
	·			
	MCM·ml	Contract Admini	strator	

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Enclosure

Notes on which proposal for HTA/5 Film Processor refurbishing program will be based.

- A report was prepared by March AFB on the performance of the HTA/5.
 With no copy of this report available, it is impossible to be certain
 that all objections have been satisfied. The following items however,
 are believed to be the areas in which improvements in performance
 could be made.
 - a) Tracking of film
 - b) Operation of the air knife
 - c) Take-up mechanism
 - d) Splicer
 - e) F.P.M. indicator
 - f) Reliability of pumps, leakage in plumbing system
 - g) Film magazines
 - h) Liquid bearings

2. Present Condition of the HTA/5.

The HTA/5 is dismantled, and has been stored in an open environment. A large number of fittings, items of equipment etc. show signs of corrosion and oxidization. Many removable items such as air and liquid bearings, vacuum pumps etc. have been stowed in boxes. The entire machine complex will require a thorough cleaning, prior to a detailed inspection. Other than by a detailed inventory, there is no way of determining if all parts are present. A preliminary check indicates that such equipment as two vacuum pumps, the air knife, one vacuum capstan, and all the electrical and plumbing inter-connecting assemblies may be missing. The two solution mixers, ductwork between the main air blower and processor, and dry box and blower may also be missing.

3. Modification and Refurbishing of the HTA/5.

The minimum changes necessary to ensure efficient operation of the processor as a production unit are proposed below.

a) Tracking of Film

6. Liquid Bearings.

a) Fit sleeves to all liquid bearings, to improve performance.

7. <u>Film Magazines.</u>

- a) Replacement of the 30,000 ft. magazines by standard types.
- b) Provide mountings and/or alignment plates as required.

8. Refurbishing of the HTA/5.

- a) Check all pumps for seal, motor and impeller integrity.
- b) Check all electrical relays and switches for safe operation.
- c) Run-up all motors and check voltage and amperage. Check for temperature rise.
- d) Conduct point-to-point continuity check of all electric circuits.
- e) Replace all damaged, removed and cut wiring.
- f) Clean and flush all tanks, valves, tee pieces, elbows etc.
- g) Clean out all service unit fittings such as valves, filter bodies, tanks etc.
- h) Manufacture missing or damaged items, such as brackets, ducts, etc.
- i) Fabricate new connecting pipe assemblies.
- j) Conduct modification program.
- k) Determine schedule of films to be processed.
- 1) Assemble machine, fill with water and conduct performance test.
- m) Run exposed film tests, plot H & D curves, edge-to-edge density variations and etc.